2025 TIMETABLE (to be confirmed Jan 2025)

Modules	Code	PGDip level	MEng level	Pre reading start	Lecture block days	Post block end	Block week presentation mode	Lecturer
Compulsory Core Data Science modules *Data Sciences PGDip students take 6 modules: DS, AML, OPT, DA, BDT, ADL - Data Sciences MEng students take 5 modules: DS, AML, OPT, DA, BDT*								
Data Science (Eng) (DS) *Presented by Industrial Engineering* *Pre-requisite: Programming at 1st year university level or equivalent (students outside the DS programmes to confirm with the Data Sciences lecturer)*	14190	774	874	24 Feb 25	10 Mar to 14 Mar 25	25 Apr 25	F2F & online	Prof M Gwetu mgwetu@sun.ac.za
Applied Machine Learning (AML) *Presented by Industrial Engineering* *Co-requisite: Data Sciences 774/874*	14022	774	874	17 Mar 25	31 Mar + 1 Apr 25 14 Apr + 15 Apr 25 29 Apr 25	11 May 25	F2F*/ online	Prof AP Englebrecht engel@sun.ac.za
Optimisation (Eng) (OPT) *Presented by Industrial Engineering* *Co-requisite: Data Sciences 774/874; AML 774/874*	14020	774	874	19 May 25	2 Jun + 3 Jun 25 17 Jun + 18 Jun 25 30 Jun 25	13 Jul 25	F2F*/ online	Prof J Grobler jacominegrobler@sun.ac.za / Dr P Venter philipzventer@sun.ac.za
Data Analytics (Eng) (DA) *Presented by Industrial Engineering* *Co-requisite: Data Sciences 774/874; AML 774/874; Optimisation 774/874*	13856	774	874	21 Jul 25	4 Aug + 5 Aug 25 18 Aug + 19 Aug 25 1 Sep 25	14 Sep 25	F2F*/ online	Prof AP Englebrecht engel@sun.ac.za / Mr E Burger eldonburger@sun.ac.za
Big Data Technologies (BDT) *Presented by Industrial Engineering* *Co-requisite: Data Sciences 774/874; AML 774/874;*	14189	774	874	18 Aug 25	*Tue* 2 Sep + *Wed* 3 Sep 25 15 Sep + 16 Sep 25 29 Sep 25	12 Oct 25	F2F*/ online	Dr J Du Toit jacques@spatialedge.ai
Applied Deep Learning (ADL) *Presented by Industrial Engineering* *Co-requisite: Data Sciences 774/874; AML 774/874; Optimisation 774/874*	**14900**	**774**	see section spec modules	8 Sep 25	22 Sep + 23 Sep 25 6 Oct + 7 Oct 25 20 Oct 25	2 Nov 25	F2F*/ online	Mr E Burger eldonburger@sun.ac.za
Specializaton modules *Data Sciences MEng students choose **one** specialization module.*								
Internet of Things (IoT) *Presented by Industrial Engineering* *Co-requisite: n.a.*	**14771**	n.a.	**874**	30 Jun 25	*Fri* 11 Jul to *Thu* 17 Jul 25	29 Aug 25	F2F*/ online	Prof Thinus Booysen mjbooysen@sun.ac.za
Applied Deep Learning (ADL) *Presented by Industrial Engineering* *Co-requisite: Data Sciences 774/874; AML 774/874; Optimisation 774/874*	**14901**	see section core modules	**874**	8 Sep 25	22 Sep + 23 Sep 25 6 Oct + 7 Oct 25 20 Oct 25	2 Nov 25	F2F*/ online	Mr E Burger eldonburger@sun.ac.za
Robotics I**** Robotics II**** *Presented by Mechanical & Mechatronic Eng .* *Note:pre-requisites! contact mfrei@sun.ac.za*	13014	n.a.	814	See information on SUNLearn module	19 Feb + 20 Feb 3 Apr + 4 Apr tbc	See information on SUNLearn module	F2F only	M&M dept.
Advanced Dynamics I**** Advanced Dynamics II**** Presented by Mechanical & Mechatronic Eng. Note:pre-requisites! contact mfrei@sun.ac.za	62960	n.a.	814	See information on SUNLearn module	27 Mar + 28 Mar 29 Apr + 30 Apr tbc	See information on SUNLearn module	F2F only	M&M dept.
Elective and Generic modules *Data Sciences PGDip students take the **two** generic modules : Project Management 713 and Industrial Management 744.* *Data Sciences MEng students choose **two** of the modules listed below.*								
Advanced Topics in Engineering Management (ATEM) / **Industrial Management** (IM) *Presented by Industrial Engineering*	11748 53937	744	873	10 Feb 25	24 Feb to 28 Feb 25	11 Apr 25	F2F & online	Prof S Grobblaar ssgrobbelaar@sun.ac.za / Prof C Pistorius caliepistorius@sun.ac.za
Numerical Methods I** **Numerical Methods II**** *Presented by Div. of Applied Mathematics*	36323		876	See information on SUNLearn module	19 Mar + 20 Mar 25 16 Apr + 17 Apr 25	See information on SUNLearn module	F2F & online	Prof Hale nickhale@sun.ac.za
Project Management (PM) *Presented by Industrial Engineering*	51993	713	873	26 May 25	9 Jun to 13 Jun 25	25 Jul 25	F2F & online	Prof T Barnard tarynbarnard@sun.ac.za
Project Economics and Finance*** *Presented by Dep. Civil Engineering*	58157		812	Pre-reading posted on SUNLearn	5 May to 9 May 25	See information on SUNLearn	F2F & online	Mr C Jurgens cj@sun.ac.za
Additional Compulsory Module								
Professional Communication	59447	771	871	Module opens end of February	Selfstudy module on SUNLEARN with deadline 11 April 2024		online selfpaced	Dr M Frei mfrei@sun.ac.za / Ms A Buchholz
MEng struc: Research assigment module								
Research assignment (Industrial Engineering) 60 credits *Pre-requisite: Passing of all 5 core modules to start the assignment in the next year. You might need to bid before all marks are released.*	10881		876		The submission dates are listed on the SUNLearn module			Prof AP Englebrecht engel@sun.ac.za & supervisors

Note: 7xx modules are taught on PGDip level. 8xx modules are taught on MEng level.

*** Check on the respective SUNLearn module if this module is offered F2F or synchronous online only**

** This module is offered by the Applied Maths Department. Enquire details on https://appliedmaths.sun.ac.za/Postgrad/

*** This module is offered by the Dept. of Civil Engineering. Enquire details on presentation mode/module structure here: https://civeng.sun.ac.za/current-postgraduates/

**** This module is offered by the Dep. of Mechanical&Mechatronic Engineering. Enquire details on pre-requisites/presentation mode/module structure/ confirmation of presentation dates here: https://www.mecheng.sun.ac.za/postgraduate-programmes/prospective-postgraduate/ In 2025 Adv Dyn cannot be taken in the same year as AML 874. Regarding fulfillment of pre-requisites contact mfrei@sun.ac.za **BEFORE** registering for the modules if you want to choose these modules.